

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)



PCT/KR2004/002336



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Applicant's or agent's file reference P04E1018PCT	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/KR2004/002336	International filing date(day/month/year) 14 SEPTEMBER 2004 (14.09.2004)	Priority date (day/month/year) 27 DECEMBER 2003 (27.12.2003)
International Patent Classification (IPC) or national classification and IPC H04N 7/173(2006.01)i		
Applicant ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. ☐ (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
 - ☐ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____ containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items:
 - ☒ Box No. I Basis of the report
 - ☐ Box No. II Priority
 - ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - ☐ Box No. IV Lack of unity of invention
 - ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - ☐ Box No. VI Certain documents cited
 - ☐ Box No. VII Certain defects in the international application
 - ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 27 APRIL 2005 (27.04.2005)	Date of completion of this report 14 APRIL 2006 (14.04.2006)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer HEO, Young Han Telephone No. 481-5990 

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/KR2004/002336

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language _____ which is the language of a translation furnished for the purposes of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☒ the international application as originally filed/furnished
- ☐ the description:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- pages _____ as originally filed/furnished
- pages* _____ as amended (together with any statement) under Article 19
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box -- (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1-11	YES
	Claims	none	NO
Inventive step (IS)	Claims	2-11	YES
	Claims	1	NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims	none	NO

2. Citations and explanations (Rule 70.7)

The following documents identified in the International Search Report have been considered for the purpose of this report:

D1 : KR 1020030019538
D2 : DE 3536820 A1
D3 : DE 3810179 A1
D4 : EP 1063625 A1
D5 : KR 1020030059034

NOVELTY(N)

Claims 1-11 of the present invention relate to a geographic information transceiving system through a digital broadcasting network and a method thereof; and, more particularly transmitting system of claim 1 includes (1) a geographic information collecting means, (2) a geographic information processing means, (3) a digital broadcasting means, (4) a geographic information multiplexing means, and (5) a transmitting means;

receiving system includes a synchronizing means, a demodulating means, a demultiplexing means, a data decoding means, a storing means, a map data managing means, and a navigation/display means.

None of the documents D1-D5 teach nor fairly suggest the geographic information transceiving system using a digital broadcasting network and a method thereof of the present invention.

Therefore, Claims 1-11 of the present invention are considered to be novel.

INVENTIVE STEP(IS)

D1 is regarded as the closet prior art to the subject matter of Claim 1 of the present invention.

In document D1, a traffic information providing system and a terminal thereof using digital data broadcasting are described, which provides real time traffic information, using digital data broadcasting in order for a user to use accurate traffic information in real time at lower costs. A data processing part collects traffic information and processes it. A broadcasting part broadcasts the processed traffic information through a ground wave digital broadcasting frequency. Next, a terminal part receives and processes the broadcasted data and then provides them to a user. And then, the traffic information data processing part processes the data, using an electronic map of the same structure as an electronic map used in each terminal. The terminal receives traffic information data through the ground wave digital data broadcasting on the basis of a stored electronic map and then displays it on the electronic map.

The following are comparisons between the technical features of claim 1 and those of D1.

(1) the geographic information collecting means and (2) the geographic information processing means of claim 1 correspond to the data processing part of D1. (3) the digital broadcasting means and (5) the transmitting means of claim 1 correspond to the broadcasting part of D1. (4) the geographic information multiplexing means, and the function of (5) the transmitting means of claim 1 is similar to the function of the terminal part of D1. Only the difference between technical features of claim 1 and those of D1 is that the same or similar functions are realized in one part or more than two parts. This is a slight design change within the scope of the customary practice followed by a person skilled in the art.

Therefore, the subject-matter of Claim 1 is considered to lack an inventive step under PCT Article 33(3).

INDUSTRIAL APPLICABILITY(IA)

The invention claimed in Claims 1-11 is considered to be industrially applicable.

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